CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-09-15-02** **Date: 16-09-17**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.
Address	:	Project Division, Yelahanka Zone, Bangalore.
Project Name	:	Develpoment Works to Vivekananda Park in ward no.03
Agency	:	Technical Manager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/39/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-09-17
Sample ID No	:	2017-09-15-02-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	15-09-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	568	697	19.5%	Satisfactory	Satisfactory
3	JSW	Fe500	16	1.580	589	699	19.0%	Satisfactory	Satisfactory
3	JSW	Fe500	20	2.470	598	701	18.5%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-25-09** **Date: 27/09/2017**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.

Address : Project Division, Yelahanka Zone, Bangalore.

Project Name : Develpoment Works to Vivekananda Park in ward no.03

Agency : Technical Manager (west), KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/39/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-17

Sample ID No : 2017-09-25-09-01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/09/2017	27/09/2017	150.22 X 150.44 X 150.45	22599	8.331	406.8	18.0	18.4
2	M20 Concrete	M20	20/09/2017	27/09/2017	150.32 X 150.54 X 150.35	22629	8.314	411.9	18.2	
3	M20 Concrete	M20	20/09/2017	27/09/2017	150.22 X 150.44 X 150.55	22599	8.514	429.4	19.0	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-25-09** **Date: 18/10/2017**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.

Address : Project Division, Yelahanka Zone, Bangalore.

Project Name : Develpoment Works to Vivekananda Park in ward no.03

Agency : Technical Manager (west), KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/39/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-17

Sample ID No : 2017-09-25-09-02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/09/2017	18/10/2017	150.22 X 150.44 X 150.45	22599	8.331	483.6	21.4	21.9
2	M20 Concrete	M20	20/09/2017	18/10/2017	150.32 X 150.54 X 150.35	22629	8.314	509.2	22.5	
3	M20 Concrete	M20	20/09/2017	18/10/2017	150.22 X 150.44 X 150.55	22599	8.514	494.9	21.9	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-10-06** **Date: 13-07-2017**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.

Address : Project Division, Yelahanka Zone, Bangalore.

Project Name : Develpoment Works to Vivekananda Park in ward no.03

Agency : Technical Manager (west), KRIDL, Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/39/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2017

Sample ID No : 2017-07-10-06-02

Sample Type : M-Sand (Fine Aggregate)

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-07-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	178	263	26.3	73.7	60-95	75-100	85-100	95-100
4	1.18 mm	188	451	45.1	54.9	30-70	55-90	75-100	90-100
5	600 micron	190	641	64.1	35.9	15-34	35-59	60-79	80-100
6	300 micron	156	797	79.7	20.3	5-20	8-30	12-40	15-50
7	150 micron	134	931	93.1	6.9	0-10	0-10	0-10	0-15
8	Pan	69	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-10-06** **Date: 13-07-2017**

Sample ID No : 2017-07-10-06-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-10-06** **Date: 13-07-2017**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.
Address	:	Project Division, Yelahanka Zone, Bangalore.
Project Name	:	Develpoment Works to Vivekananda Park in ward no.03
Agency	:	Technical Manager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/39/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-2017
Sample ID No	:	2017-07-10-06-01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5466	5720	38.1	61.9	30-70
4	10 mm	4355	10075	67.2	32.8	10-35
5	4.75 mm	4655	14730	98.2	1.8	0-5
6	Pan	270	15000	100.0	0	---

CIVIL PRO Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-10-06** **Date: 13-07-2017**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, Bangalore.
Address	:	Project Division, Yelahanka Zone, Bangalore.
Project Name	:	Develpoment Works to Vivekananda Park in ward no.03
Agency	:	Technical Manager (west), KRIDL, Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/39/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-2017
Sample ID No	:	2017-07-10-06-01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5466	5720	38.1	61.9	30-70
4	10 mm	4355	10075	67.2	32.8	10-35
5	4.75 mm	4655	14730	98.2	1.8	0-5
6	Pan	270	15000	100.0	0	---

CIVIL PRO Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-10-06** **Date: 13-07-2017**

Sample ID No : 2017-07-10-06-01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.1**	
3	Specific Gravity	**2.69**	–
4	Bulk Density(Loose) (Kg/l)	**1.56**	–
5	Bulk Density(Compacted) (Kg/l)	**1.58**	–
6	Water Absorption(%)	**0.23**	–

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com